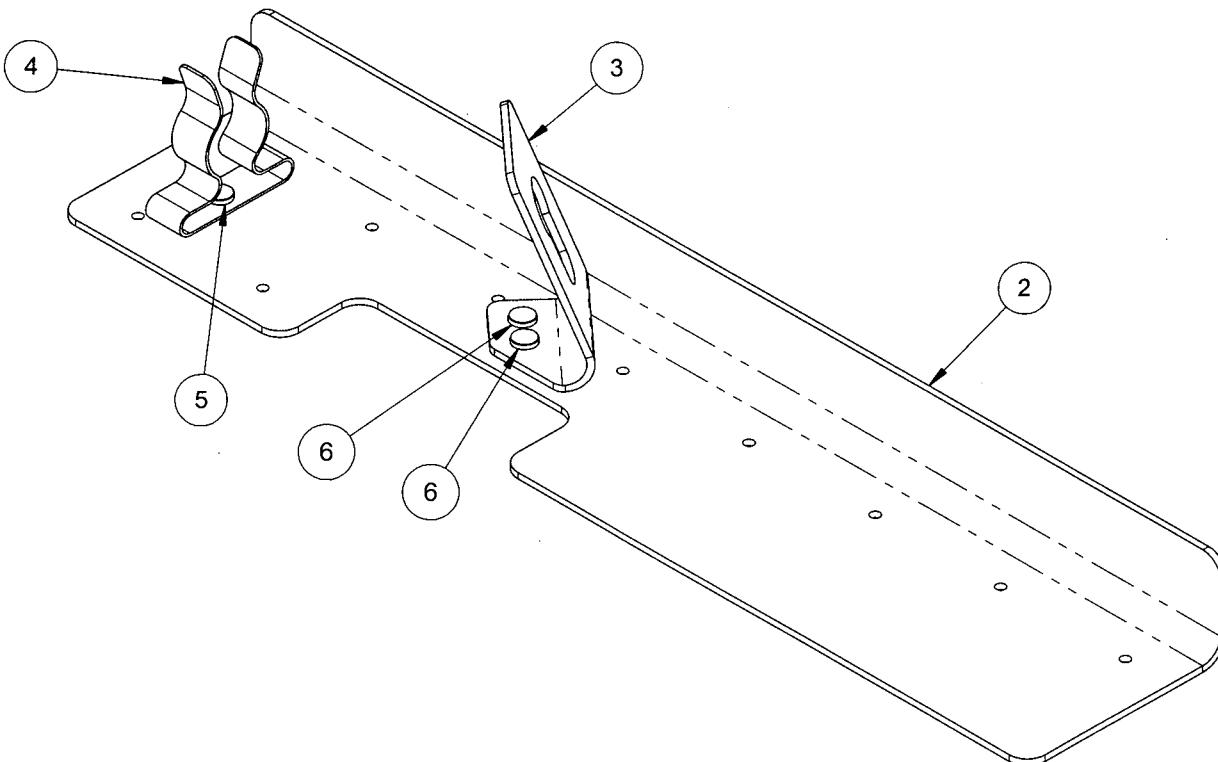


8 7 6 5 4 3 2 1

ITEM NO.	QTY. -041	PART NUMBER	DESCRIPTION	JOHN CAMERON AVIATION PART NUMBER
1	X	D4004-041	SIDE RESTRAINT ANGLE	JCA-M47-2-19
2	1	D4004-1	SIDE RESTRAINT	
3	1	D4004-3	ANGLE	
4	1	D4004-7	HOSE CLIP	
5	1	MS20426AD4-4	RIVET	
6	2	MS20426AD4-5	RIVET	

D4004-041 SIDE RESTRAINT ANGLE

RELEASED
R 2012-03-03
JW

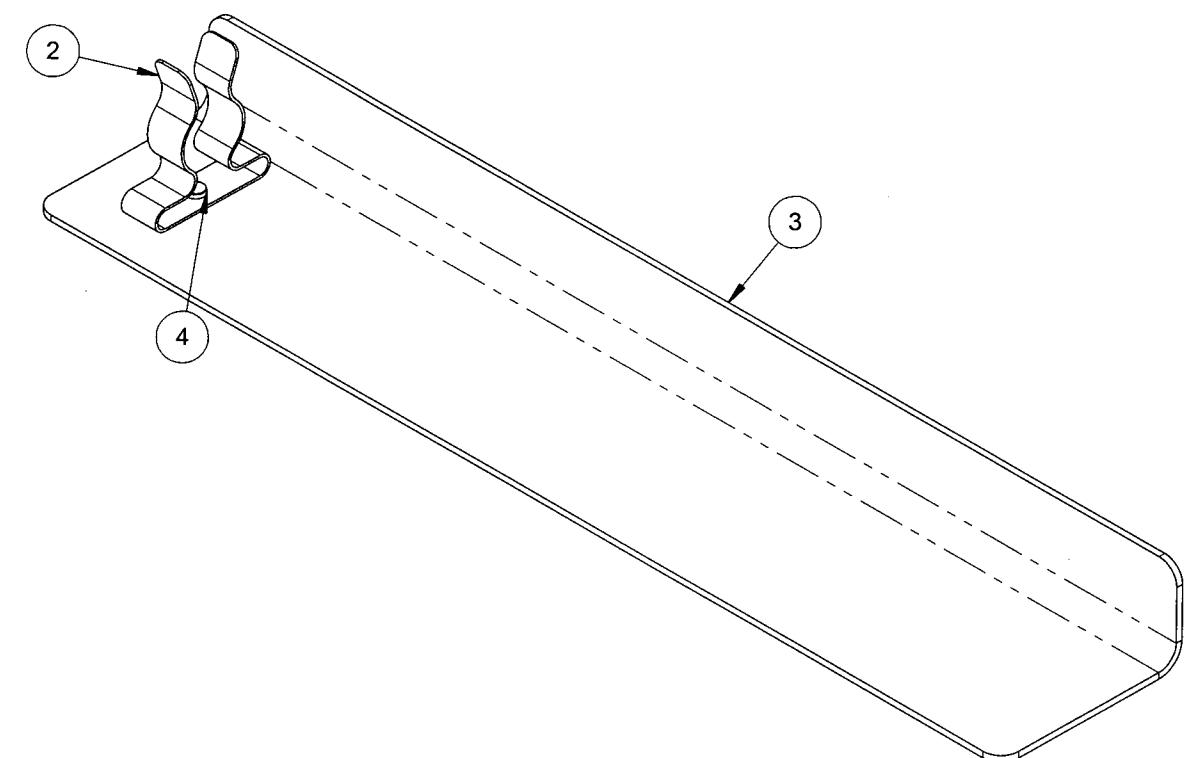
NOTES:
 1) MATERIAL: N/A
 2) FINISH: POWDER COAT "ANSI 61 GREY" (4.3.5.15) PER DART QSI 005 4.3
 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
 7) WEIGHT: 0.21 lbs

B

B	CHANGE POWDER COAT FROM "GREY SANTEX" TO "ANSI 61 GREY", ZN A8-1, ZN A8-2.		DC	12.02.27
A	NEW ISSUE		HS	10.02.10
REV.	DESCRIPTION		BY	DATE
DESIGN		DART AEROSPACE LTD <small>HAWKESBURY, ONTARIO, CANADA</small>	DRAWING NO.	
DRAWN			REV. B	
CHECKED			D4004	
MFG. APPR.			SHEET 1 OF 11	
APPROVED			TITLE	
DE APPR.			SCALE	
DATE			NTS	
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8 7 6 5 4 3 2 1

ITEM NO.	QTY. -043	PART NUMBER	DESCRIPTION	JOHN CAMERON AVIATION PART NUMBER
1	X	D4004-043	SIDE RESTRAINT ANGLE AND TIE DOWN POINT	JCA-M47-2-04
2	1	D4004-7	HOSE CLIP	
3	1	D4004-9	ANGLE	
4	1	MS20426AD4	RIVET	



D4004-043 SIDE RESTRAINT ANGLE AND TIE DOWN POINT

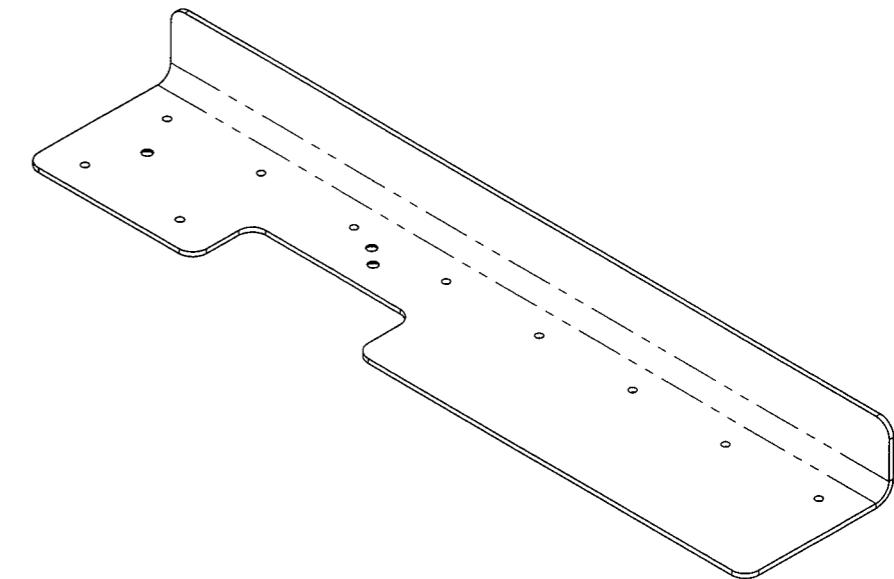
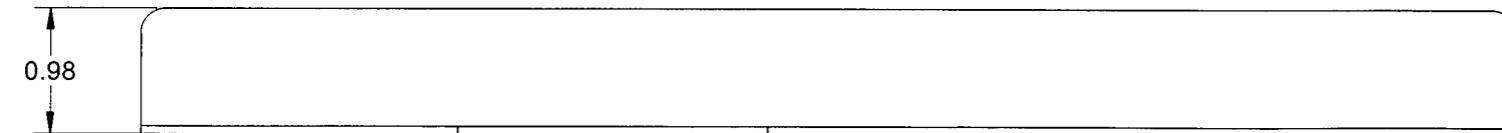
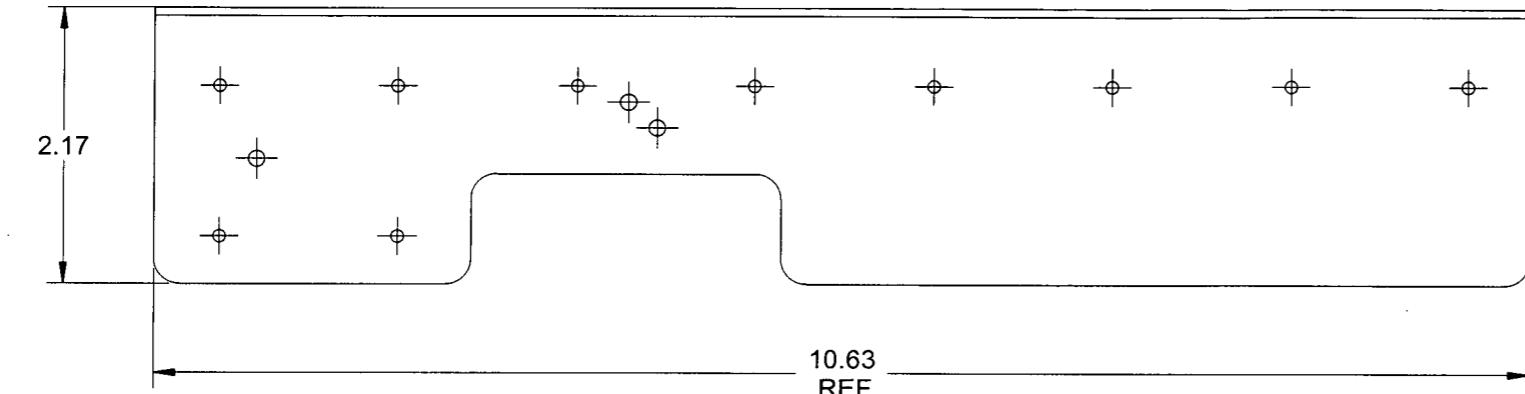
RELEASED
R 2012-03-02
MM

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT "ANSI 61 GREY" (4.3.5.15) PER DART QSI 005 4.3 △B
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.20 lbs

DESIGN	<i>BB</i>	DART AEROSPACE LTD	
DRAWN	<i>SC</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>BS</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>EZ</i>	D4004	SHEET 2 OF 11
APPROVED	<i>MG</i>	TITLE	SCALE
DE APPR.	<i>MG</i>	SIDE RESTRAINT	NTS
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DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4004-1	REF JCA-M47-2-19



D4004-1 SIDE RESTRAINT

A

NOTES:

- 1) MATERIAL: MADE FROM D4004-1F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.18 lbs

DESIGN	<i>AS</i>	DART AEROSPACE LTD
DRAWN	<i>SC</i>	HAWKESBURY, ONTARIO, CANADA
CHECKED	<i>AS</i>	DRAWING NO.
MFG. APPR.	<i>EZ</i>	REV. B
APPROVED	<i>WJ</i>	D4004
DE APPR.	<i>WJ</i>	SHEET 3 OF 11
DATE	12.02.27	TITLE
		SCALE
		NTS
		SIDE RESTRAINT
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RELEASED
2012-03-02
MAP

8 7 6 5 4 3 2 1

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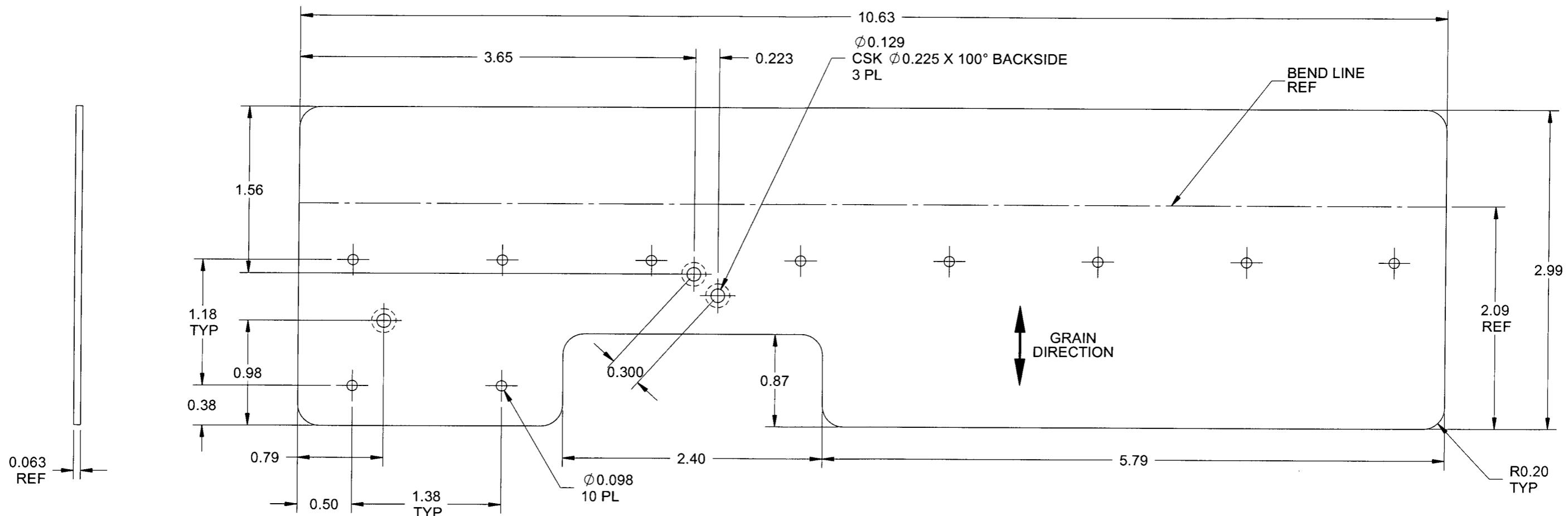
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D4004-1F FLAT PATTERN

RELEASED
2012-03-02
[Signature]

NOTES:

- 1) MATERIAL: 2024-T3 ALUMINUM SHEET, 0.063 THICK
PER QQ-A-250/4 OR AMS-QQ-A-250/4
OR AMS 4037 OR ASTM B209
REF DART SPEC M2024T3S.063
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.18 lbs

DESIGN	<i>[Signature]</i>	DART AEROSPACE LTD	
DRAWN	<i>[Signature]</i>	HAWKSLEY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO.	
MFG. APPR.	<i>[Signature]</i>	D4004	REV. B
APPROVED	<i>[Signature]</i>	SHEET 4 OF 11	SCALE
DE APPR.	<i>[Signature]</i>	SIDE RESTRAINT	NTS
DATE	12.02.27	COPYRIGHT © 2010 BY DART AEROSPACE LTD	
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8 7 6 5 4 3 2 1

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4004-3	REF JCA-M47-2-19

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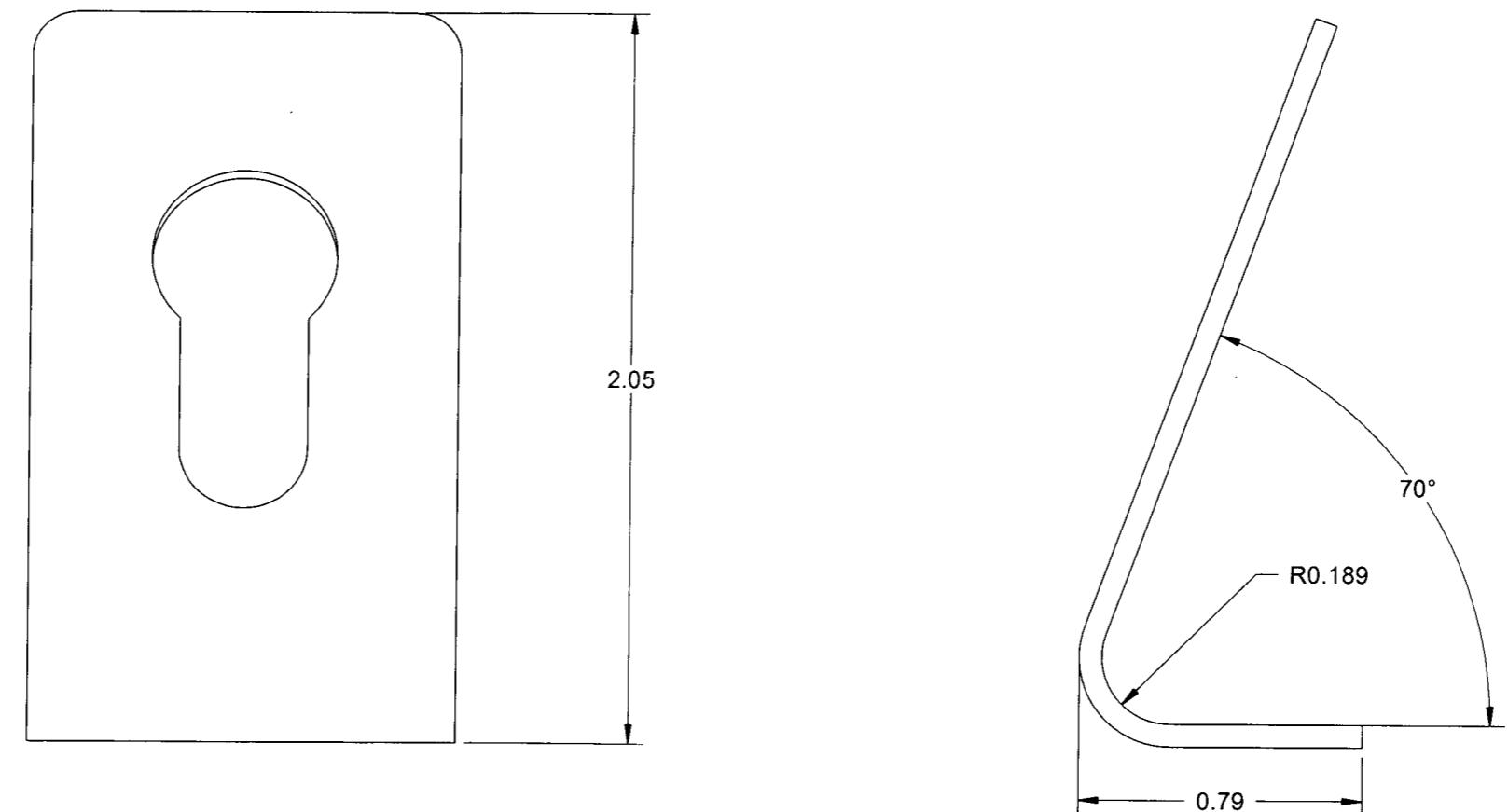
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D4004-3 STRUT LOCK BRACKET

RELEASED
R 2012-03-02
NP

NOTES:

- 1) MATERIAL: MADE FROM D4004-3F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.02 lbs

DESIGN	<i>AS</i>	DART AEROSPACE LTD
DRAWN	<i>DC</i>	HAWKESBURY, ONTARIO, CANADA
CHECKED	<i>BB</i>	DRAWING NO.
MFG. APPR.	<i>EZ</i>	REV. B
APPROVED	<i>MP</i>	D4004
DE APPR.	<i>MM</i>	SHEET 5 OF 11
DATE	12.02.27	TITLE
		SCALE
		NTS
		SIDE RESTRAINT
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8 7 6 5 4 3 2 1

D

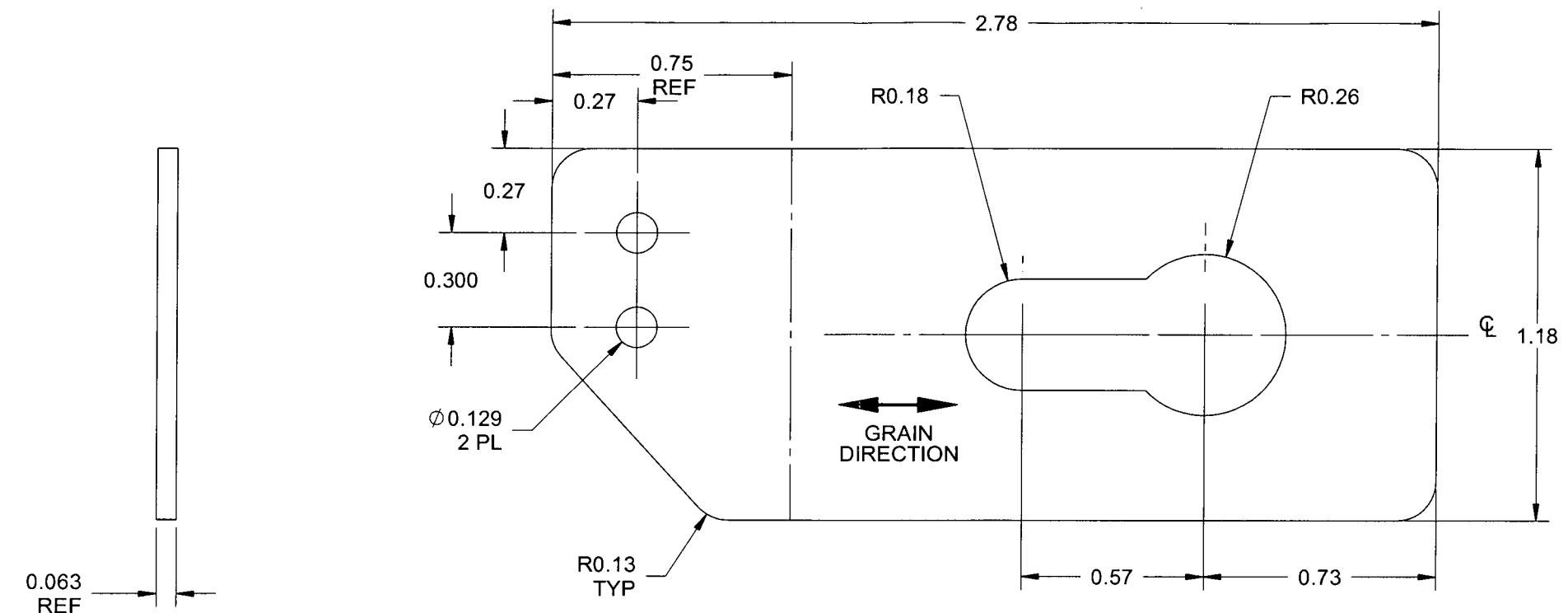
D

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D4004-3F FLAT PATTERN

RELEASED
2012-03-02
M

NOTES:

- 1) MATERIAL: 2024-T3 ALUMINUM SHEET, 0.063 THICK PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 REF DART SPEC M2024T3S.063
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.02 lbs

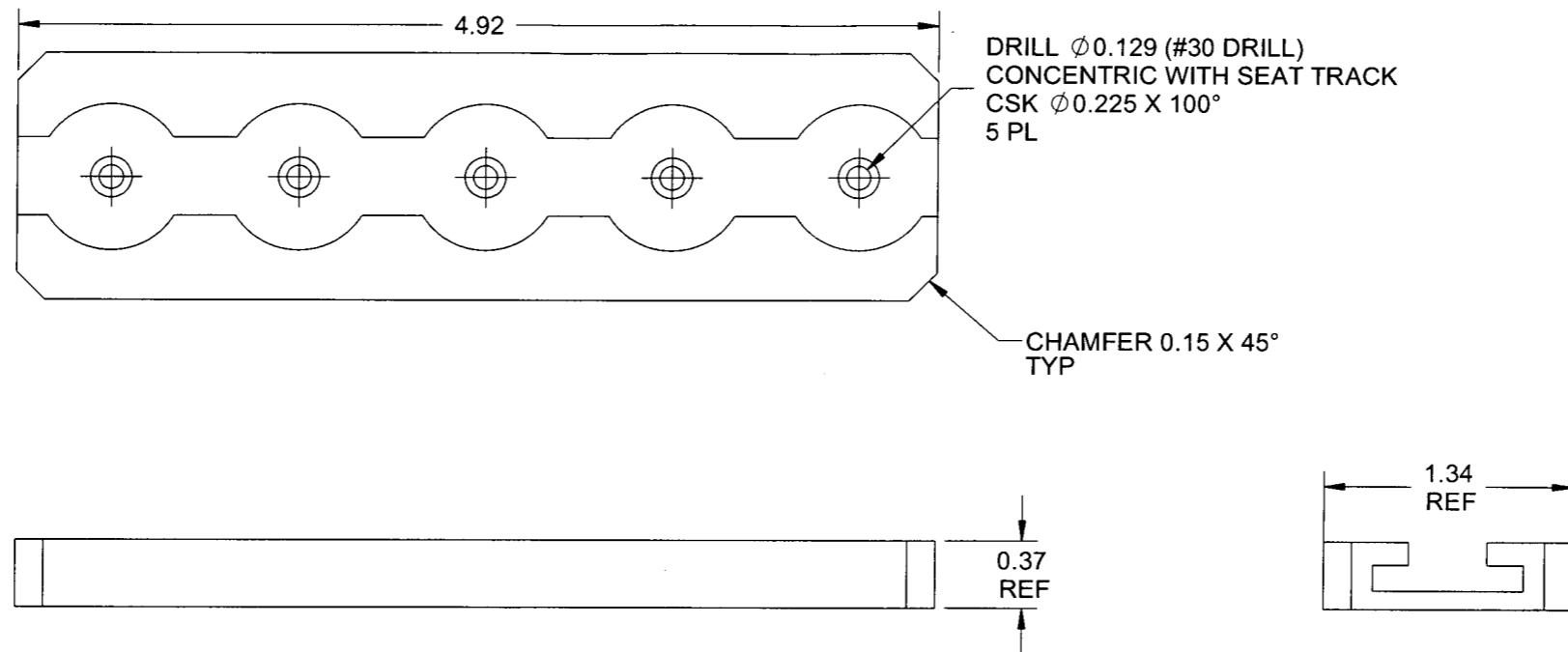
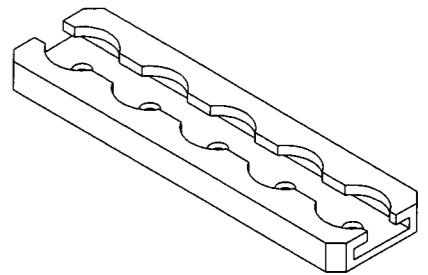
DESIGN	<i>SP</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
DRAWN	<i>DC</i>	
CHECKED	<i>SP</i>	
MFG. APPR.	<i>EE</i>	
APPROVED	<i>MM</i>	
DE APPR.	<i>MM</i>	
DATE	12.02.27	

DRAWING NO. D4004 REV. B
SHEET 6 OF 11
TITLE SIDE RESTRAINT SCALE NTS
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8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4004-5	JCA-M47-2-23



D4004-5 BOTTOM STRAP ATTACH BRACKET

RELEASED
2012-03-02
MM

A NOTES:

- 1) MATERIAL: MADE FROM ANCRA P/N 40456-11-144
OR BROWNLINE P/N 20276-144-0-0
OR D3033-144
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.14 lbs

DESIGN	<i>AS</i>	DART AEROSPACE LTD
DRAWN	<i>DC</i>	HAWKSLEY, ONTARIO, CANADA
CHECKED	<i>AS</i>	DRAWING NO.
MFG. APPR.	<i>EZ</i>	REV. B
APPROVED	<i>AS</i>	D4004
DE APPR.	<i>AS</i>	SHEET 7 OF 11
DATE	12.02.27	TITLE
		SCALE
		NTS
		SIDE RESTRAINT
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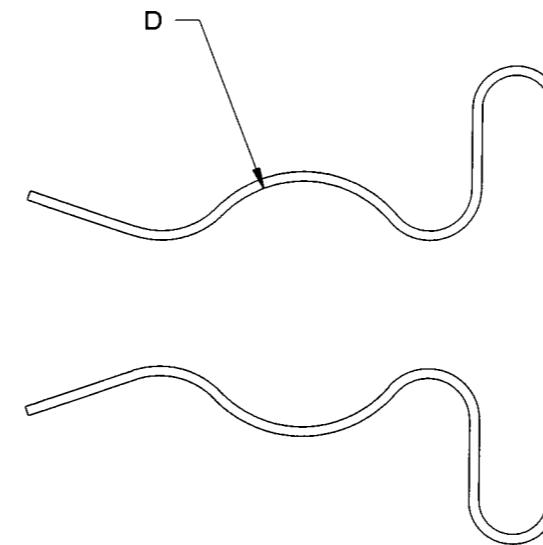
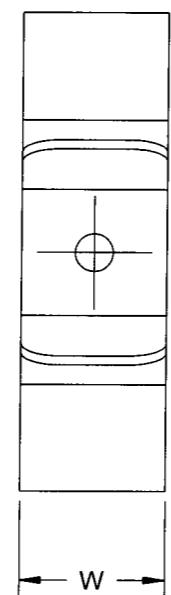
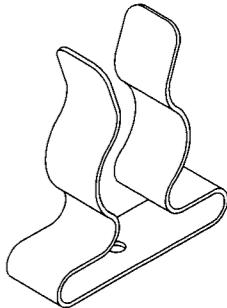
3

2

1

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4004-7	N3 REF JCA-M47-2-19

SPECIFICATION CONTROL DRAWING



DART PART NUMBER	POSSIBLE SUPPLIER	SUPPLIER PART NUMBER	MATERIAL	FITS TUBE Ø "D"	WIDTH "W"
D4004-7	MCMASTER-CARR	1722A42	NICKEL PLATED STEEL	0.31 - 0.75	0.38

RELEASED
2012-03-02

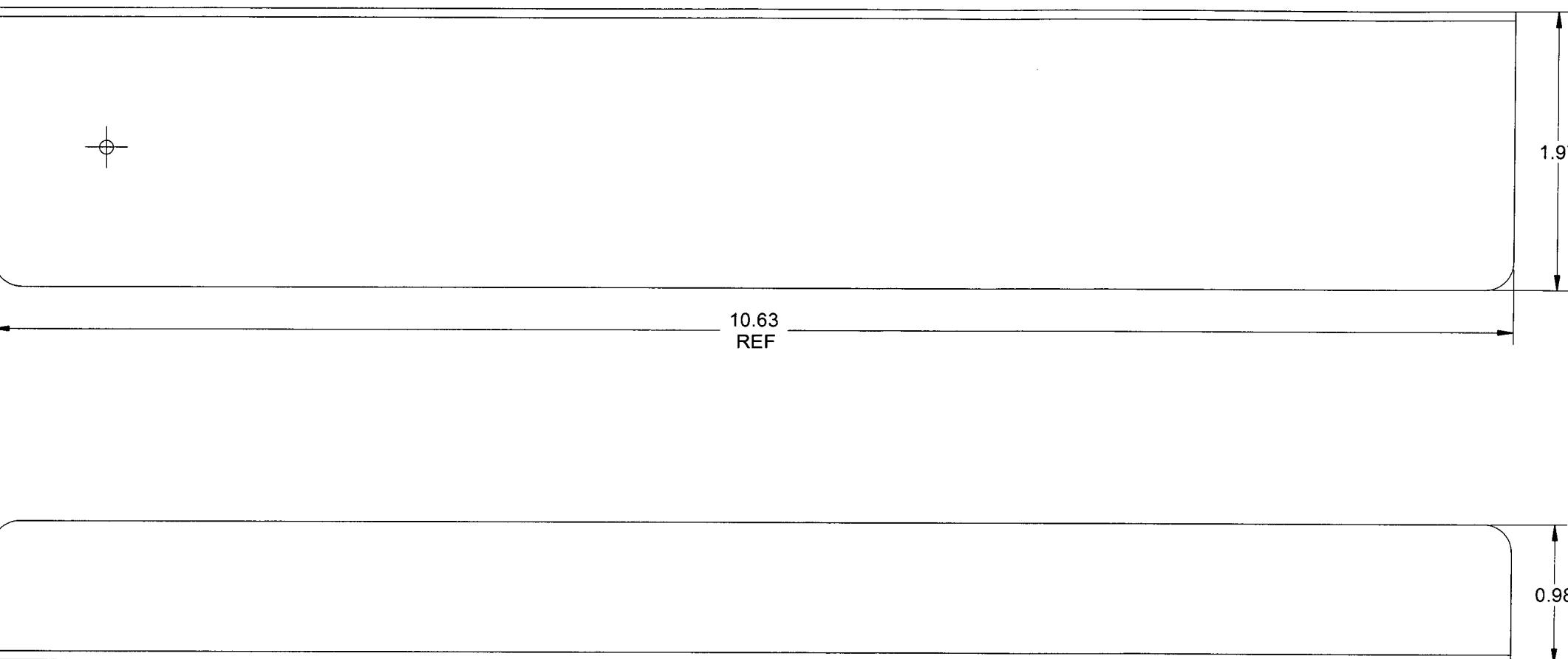
D4004-X HOSE CLIP

NOTES:

- 1) MATERIAL: SEE TABLE
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.01 lbs

DESIGN	<i>AS</i>	DART AEROSPACE LTD
DRAWN	<i>JC</i>	HAWKESBURY, ONTARIO, CANADA
CHECKED	<i>AS</i>	DRAWING NO.
MFG. APPR.	<i>EZ</i>	REV. B
APPROVED	<i>AS</i>	D4004
DE APPR.	<i>AS</i>	SHEET 8 OF 11
DATE	12.02.27	TITLE
		SCALE
		NTS
		SIDE RESTRAINT
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DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4004-9	REF JCA-M47-2-04



D4004-9 ANGLE

RELEASED
2012-03-02
AP

NOTES:

- 1) MATERIAL: MADE FROM D4004-9F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.18 lbs

DESIGN	<i>AS</i>	DART AEROSPACE LTD
DRAWN	<i>JC</i>	HAWKESBURY, ONTARIO, CANADA
CHECKED	<i>AS</i>	DRAWING NO.
MFG. APPR.	<i>EZ</i>	REV. B
APPROVED	<i>AS</i>	D4004
DE APPR.	<i>AS</i>	SHEET 9 OF 11
DATE	12.02.27	TITLE
		SCALE
		NTS
		SIDE RESTRAINT
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8 7 6 5 4 3 2 1

D

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C

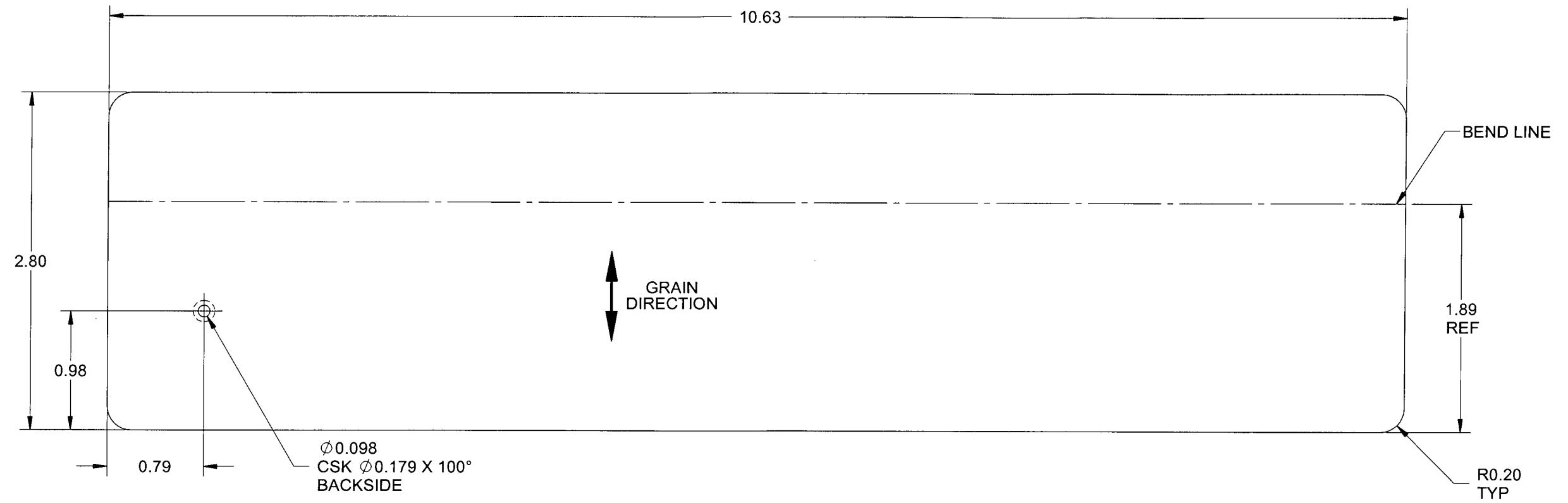
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D4004-9F FLAT PATTERN

RELEASED
2012-03-01
AP

NOTES:

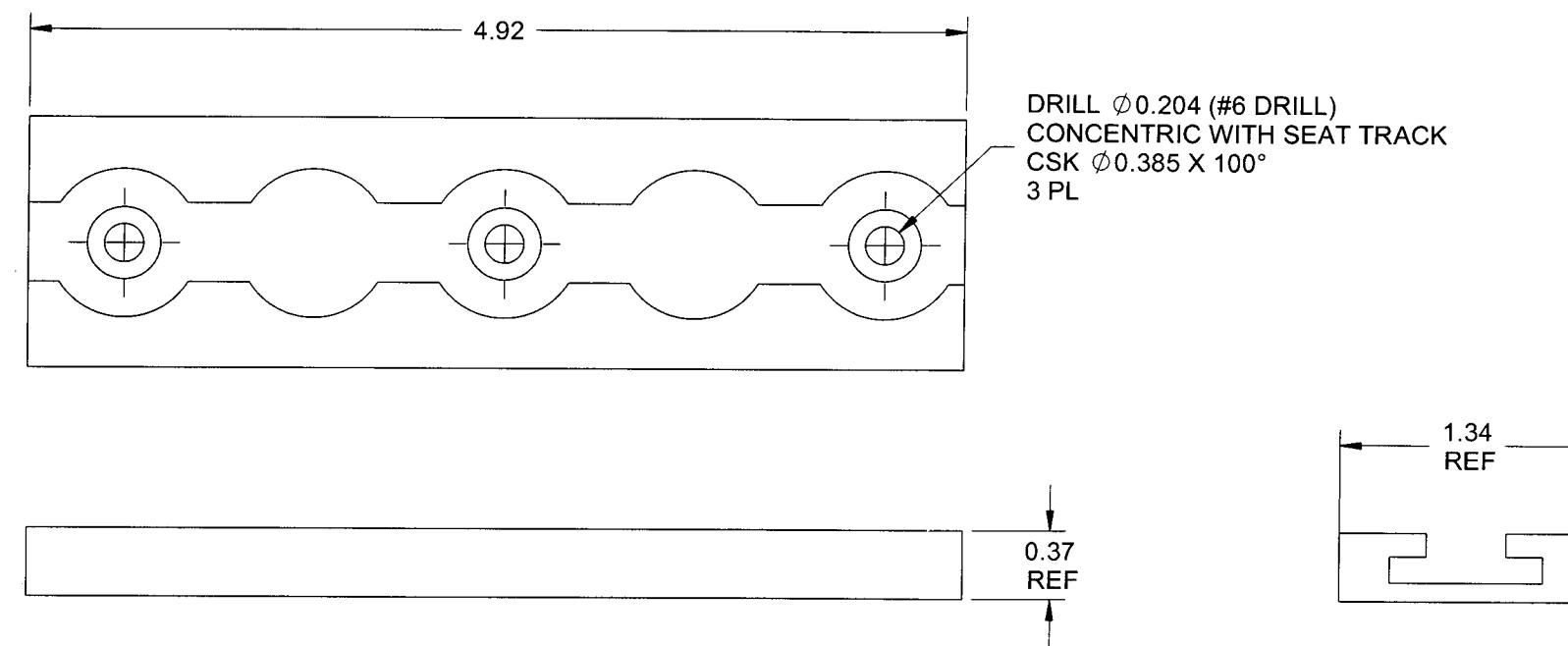
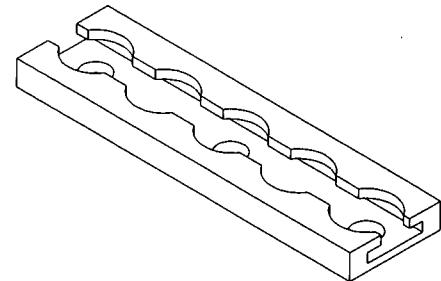
- 1) MATERIAL: 2024-T3 ALUMINUM SHEET, 0.063 THICK PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 REF DART SPEC M2024T3S.063
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.18 lbs

DESIGN	<i>AS</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
DRAWN	<i>JL</i>	
CHECKED	<i>AS</i>	
MFG. APPR.	<i>EZ</i>	
APPROVED	<i>MO</i>	
DE APPR.	<i>MM</i>	
DATE	12.02.27	

REV. B
DRAWING NO.
D4004
SHEET 10 OF 11
TITLE
SCALE
NTS
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8 7 6 5 4 3 2 1

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4004-11	JCA-M47-2-11



D4004-11 TOP STRAP ATTACH BRACKET

RELEASED
2012-03-02

A NOTES:

- 1) MATERIAL: MADE FROM ANCRA P/N 40456-11-144
OR BROWNLINE P/N 20276-144-0-0
OR D3033-144
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.14 lbs

DESIGN	<i>SP</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
DRAWN	<i>DC</i>	
CHECKED	<i>BS</i>	
MFG. APPR.	<i>EZ</i>	
APPROVED	<i>WJ</i>	
DE APPR.	<i>SH</i>	
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8 7 6 5 4 3 2 1